

Appl. No. 09/914,524  
 Atty. Docket No. 7489  
 Amdt. dated September 2, 2003  
 Reply to Office Action of June 2, 2003  
 Customer No. 27752

### AMENDMENTS TO THE CLAIMS

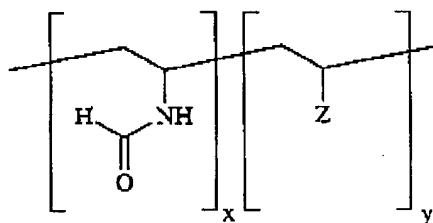
This listing of claims will replace all prior versions, and listings, of claims in the application:

#### Listing of Claims:

Claims 1-11: canceled

12. (new) A detergent compositions comprising:

- a) from about 4% to about 70% by weight, of a surfactant;
- b) from about 0.01% to about 10% by weight, of a dye maintenance co-polymer, said copolymer having the general formula:



x has the value of from about 10 to about 100,000; y has the value of from about 10 to about 100,000; the ratio of x to y is from 9:1 to 1:9; each Z is independently  $(CH_2)_mCOR'$  wherein  $R'$  is selected from:

- i)  $-OR^3$ ;
- ii)  $-O(CH_2)_nN(R^3)_2$ ;
- iii)  $-O(CH_2)_nN^+(R^3)_3X^-$ ;
- iv)  $-NR^3(CH_2)_nN(R^3)_2$ ;
- v)  $-NR^3(CH_2)_nN^+(R^3)_3X^-$ ;
- vi)  $-(CH_2)_nN(R^3)_2$ ;
- vii)  $-(CH_2)_nN^+(R^3)_3X^-$ ;
- viii) or mixtures thereof;

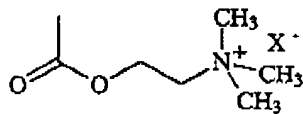
each  $R^3$  is independently hydrogen,  $C_1-C_8$  alkyl,  $C_2-C_8$  hydroxyalkyl, and mixtures thereof; X is a water soluble anion; the index n is from 0 to 6; the index m is from 0 to 6;

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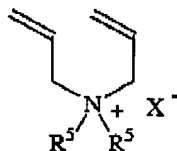
provided said polymer or co-polymer has a net cationic charge; and wherein said dye maintenance polymer is not an polyethyleneimine or alkoxyated derivative thereof; and  
 c) the balance carriers and other adjunct ingredients.

13. (new) A composition according to Claim 12 comprising from about 0.1% to about 7% by weight of said dye maintenance polymer.

14. (new) A composition according to Claim 12 wherein Z has the formula:

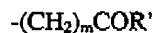


15. (new) A composition according to Claim 12 wherein dye maintenance co-polymer further comprises a cyclically polymerizing monomer, said cyclically polymerizing monomer having the formula:



wherein R<sup>5</sup> is C<sub>1</sub>-C<sub>4</sub> alkyl, and mixtures thereof; X is a water soluble anion.

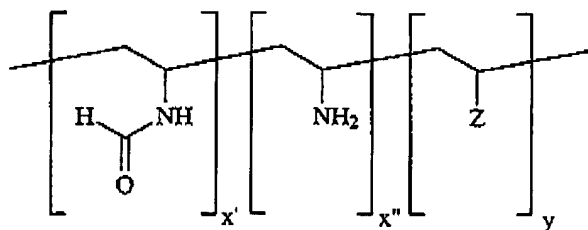
16. (new) A composition according to Claim 12 comprising a co-polymer wherein Z has the formula:



wherein each R' is independently -O(CH<sub>2</sub>)<sub>n</sub>N(R<sup>3</sup>)<sub>2</sub>; -O(CH<sub>2</sub>)<sub>n</sub>N<sup>+</sup>(R<sup>3</sup>)<sub>3</sub>X<sup>-</sup>; -(CH<sub>2</sub>)<sub>2</sub>N(R<sup>3</sup>)<sub>2</sub>; -(CH<sub>2</sub>)<sub>2</sub>N<sup>+</sup>(R<sup>3</sup>)<sub>3</sub>X<sup>-</sup>; and mixtures thereof, m is 0, n is from 2 to 4.

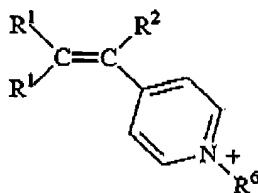
17. (new) A composition according to Claim 12 comprising a co-polymer wherein the co-polymer further comprises vinyl amine units having the formula:

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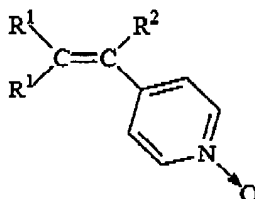
wherein  $x' + x'' = x$ .

18. (new) A composition according to Claim 17 wherein Z comprises a cyclically polymerizing monomer, said cyclically polymerizing monomer having the formula:



wherein  $R^1$  and  $R^2$  are each hydrogen and  $R^6$  is methyl.

19. (new) A composition according to Claim 17 wherein Z comprises a cyclically polymerizing monomer, said cyclically polymerizing monomer having the formula:



wherein  $R^1$  and  $R^2$  are each hydrogen.

20. (new) A composition according to Claim 12 wherein said adjunct ingredients are selected from the group consisting of electrolytes, stabilizers, low molecular weight water soluble solvents, chelating agents, dispersibility aids, soil release agents, nonionic fabric softening agents, concentration aid, perfume, preservatives, colorants, optical brighteners, opacifiers, germicides, fungicides, anti-corrosion agents, antifoam agents, and mixtures thereof.

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21. (new) A method for reducing the loss of fabric dye comprising the steps of:
- i) contacting dyed fabric with a laundry detergent comprising:
    - a) from about 4% to about 70% by weight, of a surfactant;
    - b) from about 0.01% to about 5% by weight, of a dye maintenance copolymer of Claim 11; and
    - c) the balance carriers and other adjunct ingredients; and
  - ii) agitation; and
  - iii) optionally, drying the fabric.